

Title (en)
INTEGRATED APPARATUS FOR DIE CUTTING AND SHEET STACKING

Title (de)
INTEGRIERTE VORRICHTUNG ZUM STANZEN UND BOGENSTAPELN

Title (fr)
APPAREIL INTÉGRÉ POUR DÉCOUPAGE À L'EMPORTE-PIÈCE ET EMPILEMENT DE FEUILLES

Publication
EP 4012815 A4 20230906 (EN)

Application
EP 19940587 A 20190929

Priority
• CN 201910722276 A 20190806
• CN 2019109124 W 20190929

Abstract (en)
[origin: US2022149419A1] An integrated equipment of die-cutting and stacking, including two electrode die-cutting mechanisms, two electrode conveying mechanisms, a positive electrode feeding mechanism, a negative electrode feeding mechanism, a battery separator unwinding mechanism, and a double stacking table mechanism. The positive electrode feeding mechanism and the negative electrode feeding mechanism are respectively arranged on two sides of the double stacking table mechanism; and one electrode conveying mechanism is arranged between the electrode die-cutting mechanism and the positive electrode feeding mechanism, and another electrode conveying mechanism is arranged between the electrode die-cutting mechanism and the negative electrode feeding mechanism; the battery separator unwinding mechanism is located above the double stacking table mechanism; the double stacking table mechanism includes a rotating shaft, two rotating arms, two central rotating shafts, a first stacking table and a second stacking table.

IPC 8 full level
H01M 10/0583 (2010.01)

CPC (source: CN EP US)
B23P 15/00 (2013.01 - EP); **H01M 4/0409** (2013.01 - US); **H01M 4/043** (2013.01 - US); **H01M 10/0404** (2013.01 - EP US); **H01M 10/0431** (2013.01 - CN); **H01M 10/0468** (2013.01 - US); **H01M 10/0583** (2013.01 - CN); **B21D 43/006** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)
[A] CN 106374144 A 20170201 - GUANGDONG YIXINFENG INTELLIGENT EQUIPMENT CO LTD

Cited by
CN117123421A

Designated contracting state (EPC)
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US 11367891 B2 20220621; **US 2022149419 A1 20220512**; CN 110416628 A 20191105; EP 4012815 A1 20220615; EP 4012815 A4 20230906; JP 2022533479 A 20220722; JP 7192175 B2 20221220; WO 2021022654 A1 20210211

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